Application No: 10573478   Version No: 3.0

Input Set:

Output Set:

Started: 2008-06-24 14:32:31.560
Finished: 2008-06-24 14:32:32.099
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 539 ms
Total Warnings: 6
Total Errors: 0
No. of SeqIDs Defined: 22
Actual SeqID Count: 22

Error code   Error Description

W   213   Artificial or Unknown found in <213> in SEQ ID (5)

W   213   Artificial or Unknown found in <213> in SEQ ID (18)

W   213   Artificial or Unknown found in <213> in SEQ ID (19)

W   213   Artificial or Unknown found in <213> in SEQ ID (20)

W   213   Artificial or Unknown found in <213> in SEQ ID (21)

W   213   Artificial or Unknown found in <213> in SEQ ID (22)

<400> 1
gaattc atc atg cat gga gat aca cct aca ttg cat gaa tat atg tta   48
       Ile Met His Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu
         1   5   10

gat ttg caa cca gag aca act gat ctc tac tgt tat gag caa tta aat   96
Asp Leu Gln Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn
 15   20   25   30

gac agc tca gag gag gag gat gaa ata gat ggt cca gct gga caa gca   144
Asp Ser Ser Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala
                 35   40   45

gaa ccg gac aga gcc cat tac aat att gta acc ttt tgt tgc aag tgt   192
Glu Pro Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys
             50   55   60

gac tct acg ctt cgg ttg tgc gta caa agc aca cac gta gac att cgt   240
Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg
         65   70   75

act ttg gaa gac ctg tta atg ggc aca cta gga att gtg tgc ccc atc   288
Thr Leu Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile

```
tgt tct cag aaa cca ggatcc                                    309
Cys Ser Gln Lys Pro
 95
```

```
<210> 2
<211> 99
<212> PRT
<213> Human papillomavirus type 16

<400> 2
Ile Met His Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu
 1               5                  10                  15

Gln Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser
            20                  25                  30

Ser Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro
        35                  40                  45

Asp Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser
    50                  55                  60

Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu
 65                  70                  75                  80

Glu Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser
                85                  90                  95

Gln Lys Pro
```

```
<210> 3
<211> 330
<212> DNA
<213> Human papillomavirus type 18

<220>
<221> CDS
<222> (7)..(324)

<400> 3
gaattc agt atg cat gga cct aag gca aca ttg caa gac att gta ttg     48
       Ser Met His Gly Pro Lys Ala Thr Leu Gln Asp Ile Val Leu
           1               5                  10

cat tta gag ccc caa aat gaa att ccg gtt gac ctt cta tgt cac gag    96
His Leu Glu Pro Gln Asn Glu Ile Pro Val Asp Leu Leu Cys His Glu
 15                  20                  25                  30

caa tta agc gac tca gag gaa gaa aac gat gaa ata gat gga gtt aat    144
Gln Leu Ser Asp Ser Glu Glu Glu Asn Asp Glu Ile Asp Gly Val Asn
                35                  40                  45
```

```
cat caa cat tta cca gcc cga cga gct gaa cca caa cgt cac aca atg      192
His Gln His Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met
            50              55              60

ttg tgt atg tgt tgt aag tgt gaa gcc aga att gag cta gta gta gaa      240
Leu Cys Met Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu
            65              70              75

agc tca gca gac gac ctt cga gca ttc cag cag ctg ttt ctg aac acc      288
Ser Ser Ala Asp Asp Leu Arg Ala Phe Gln Gln Leu Phe Leu Asn Thr
        80              85              90

ctg tcc ttt gtg tgt ccg tgg tgt gca tcc cag cag ggatcc             330
Leu Ser Phe Val Cys Pro Trp Cys Ala Ser Gln Gln
 95              100             105
```

<210> 4
<211> 106
<212> PRT
<213> Human papillomavirus type 18

<400> 4

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Ser Met His Gly Pro Lys Ala Thr Leu Gln Asp Ile Val Leu His Leu
 1               5               10              15

Glu Pro Gln Asn Glu Ile Pro Val Asp Leu Leu Cys His Glu Gln Leu
            20              25              30

Ser Asp Ser Glu Glu Glu Asn Asp Glu Ile Asp Gly Val Asn His Gln
        35              40              45

His Leu Pro Ala Arg Arg Ala Glu Pro Gln Arg His Thr Met Leu Cys
    50              55              60

Met Cys Cys Lys Cys Glu Ala Arg Ile Glu Leu Val Val Glu Ser Ser
 65              70              75              80

Ala Asp Asp Leu Arg Ala Phe Gln Gln Leu Phe Leu Asn Thr Leu Ser
                85              90              95

Phe Val Cys Pro Trp Cys Ala Ser Gln Gln
            100             105
```

<210> 5
<211> 5321
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic nucleotide
      sequence of recombinant vector pQE30-dnaK

<400> 5
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attgtgagcg gataacaatt tcacacagaa ttcattaaag aggagaaatt aactatgaga 120
```

```
ggatcgcatc accatcacca tcacggatcc gctcgtgcgg tcgggatcga cctcgggacc 180
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gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc atgacattaa  5280
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<210> 6
<211> 12
<212> PRT
<213> Bos taurus

<400> 6
Lys Lys Arg Pro Lys Pro Gly Gly Gly Trp Asn Thr
 1   5   10

<210> 7
<211> 8
<212> PRT
<213> Bos taurus

<400> 7
Gln Pro His Gly Gly Gly Trp Gly
 1   5

<210> 8
<211> 13
<212> PRT
<213> Bos taurus

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<400> 8
Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Ile Lys
  1               5                  10


<210> 9
<211> 17
<212> PRT
<213> Bos taurus

<400> 9
Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr Gln Arg Gly Ala
  1               5                  10                  15

Ser


<210> 10
<211> 19
<212> DNA
<213> Human papillomavirus type 16

<400> 10
tgacagctca gaggaggag                                             19


<210> 11
<211> 19
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<400> 11
gcacaaccga agcgtagag                                             19


<210> 12
<211> 20
<212> DNA
<213> Human papillomavirus type 18

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gcgactcaga ggaagaaaac                                            20


<210> 13
<211> 20
<212> DNA
<213> Human papillomavirus type 18

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caaaggacag ggtgttcaga                                            20


<210> 14
<211> 31
<212> DNA
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<213> Human papillomavirus type 18

<400> 14
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<210> 15
<211> 30
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<400> 15
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<210> 16
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<210> 17
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<400> 17
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<210> 18
<211> 130
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic pHE716 and
      pHE718 terminal sequence

<220>
<221> misc_feature
<222> (107)..(108)
<223> HSP 16/HSP18 E7 gene insertion site

<400> 18
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ctgaaagctt   130

<210> 19
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
     primer

<400> 19
gaagatctat gcatggagat acacctac   28

<210> 20
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
     primer

<400> 20
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<210> 21
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
     primer

<400> 21
gaagatctat gcatggacct aaggcaac   28

<210> 22
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
     primer

<400> 22
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